

DEC 09 2004

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Viatcheslav V. Osipov et al.

Confirmation No.: 1787

Application No.: 10/631,951

Examiner: N. Drew Richards

Filing Date: July 30, 2003

Group Art Unit: 2815

Title: Square-Law Detector Based on Spin Injection and Nanowires

Mail Stop Amendment  
Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- (X) Response/Amendment ( ) Petition to extend time to respond  
( ) New fee as calculated below ( ) Supplemental Declaration  
(X) No additional fee  
( ) Other: \_\_\_\_\_ (fee \$ \_\_\_\_\_)

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS	37	MINUS	37	= 0	X \$18	\$ 0
INDEP. CLAIMS	2	MINUS	3	= 0	X \$88	\$ 0
[ ] FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ \$300	\$ 0
EXTENSION FEE	1ST MONTH \$110.00	2ND MONTH \$430.00	3RD MONTH \$980.00	4TH MONTH \$1530.00		\$ 0
OTHER FEES						\$
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

Charge \$ 0 to Deposit Account 08-2025. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 08-2025 under 37 CFR 1.16 through 1.21 inclusive, and any other sections in Title 37 of the Code of Federal Regulations that may regulate fees. A duplicate copy of this sheet is enclosed.

"Express Mail" label no. ED 539 935 263 US

Date of Deposit Dec. 9, 2004

I hereby certify that this is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, Alexandria, VA 22313-1450.

By David T. Millers  
Typed Name: David T. Millers

Respectfully submitted,

Viatcheslav V. Osipov et al.

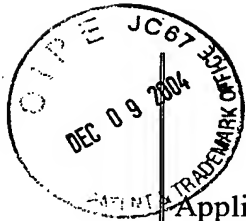
By

David T. Millers

David T. Millers

Attorney/Agent for Applicant(s)  
Reg. No. 37,396

Date: Dec. 9, 2004



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Viatcheslav V. Osipov and Alexandre M. Bratkovski  
Assignee: Hewlett-Packard Development Company, L.P.  
Title: Square-Law Detector Based On Spin Injection And Nanowires  
Serial No.: 10/631,951 Filing Date: July 30, 2003  
Examiner: N. Drew Richards Group Art Unit: 2815  
Docket No.: 200308747-1

San Jose, California  
December 9, 2004

Mail Stop AMENDMENT  
COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, VA 22313-1450

**RESPONSE TO OFFICE ACTION**

Dear Sir:

This response to the Office Action dated September 9, 2004, which has a statutorily shortened period for response that ends December 9, 2004, includes:

Amendments to the specification;

A listing of the claims presented for further examination; and

Remarks given in reply to the Office Action dated September 9, 2004.

THE PATENT LAW OFFICES  
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